

**Notice of Allowability**

Application No.

09/871,805

Examiner

Dalei Dong

Applicant(s)

YAMAZAKI, SHUNPEI

Art Unit

2879

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Response filed October 5, 2004.
2. ☒ The allowed claim(s) is/are 1-52.
3. ☒ The drawings filed on 04 June 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets" ) must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948 ) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 1-52 allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding to claim 1, prior art of record taken alone or in combination fails to teach or suggest a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element or suggests the specific combination of using a triplet compound for the red light emitting layer and a singlet compound for the green and blue light emitting layers in order to provide a technique for keeping operation voltage of an EL element with blue light emission at a constant level, when a light emitting device is made to perform color display while achieve good color balance.

Regarding to claim 2, prior art of record taken alone or in combination fails to teach or suggest a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet

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compound is used in each of the second and third EL element or suggests the specific combination of using a triplet compound for the red light emitting layer and a singlet compound for the green and blue light emitting layers in order to provide a technique for keeping operation voltage of an EL element with blue light emission at a constant level, when a light emitting device is made to perform color display while achieve good color balance.

Regarding to claim 3, prior art of record taken alone or in combination fails to teach or suggest a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element or suggests the specific combination of using a triplet compound for the red light emitting layer and a singlet compound for the green and blue light emitting layers in order to provide a technique for keeping operation voltage of an EL element with blue light emission at a constant level, when a light emitting device is made to perform color display while achieve good color balance.

Regarding to claim 4, prior art of record taken alone or in combination fails to teach or suggest a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in

the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element or suggests the specific combination of using a triplet compound for the red light emitting layer and a singlet compound for the green and blue light emitting layers in order to provide a technique for keeping operation voltage of an EL element with blue light emission at a constant level, when a light emitting device is made to perform color display while achieve good color balance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following prior art are cited to further show the state of the art of composition of a light-emitting device.

U.S. Patent No. 5,703,436 to Forrest.

U.S. Patent No. 5,742,129 to Nagayama.

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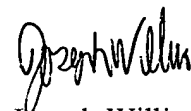
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



D.D.  
December 14, 2004



Joseph Williams  
Primary Examiner  
Art Unit 2879